

In the Claims

Please enter the following rewritten claims:

1. An isolated polynucleotide selected from:

- a) a polynucleotide encoding an enzyme with aminotransferase activity wherein the amino acid sequence of the enzyme is at least 70% identical to SEQ ID NOS:25-32; and
- b) a polynucleotide comprising a nucleic acid sequence complementary to a polynucleotide of a).

12. The polynucleotide of claim 1 comprising any one of the sequences set forth in SEQ ID NOS:17-24.

17. (Amended) A nucleic acid probe comprising an oligonucleotide from about 10 to 50 nucleotides in length and having a region of nucleotides that is at least 70% complementary to a nucleic acid target region of a nucleic acid encoding an amino acid sequence selected from the group consisting of SEQ ID NOS:25-32 and which hybridizes to the nucleic acid target region to form a detectable target:probe duplex under conditions that include 0.9 M NaCl, 5.0 mM NaH₂PO₄, 5.0 mM Na₂ EDTA, 0.5% SDS and 10 X Denhardt's at about 45° C.

22. The probe of claim 17, wherein the oligonucleotide is 15-50 nucleotides in length.

Please add the following claims:

--25. The polynucleotide of claim 2 which encodes an aspartate transaminase that is at least 70% identical to the enzyme of SEQ ID NO:25.

26. The polynucleotide of claim 2 which encodes an aspartate aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:26.

27. The polynucleotide of claim 2 which encodes an adenosyl-8-amino-7-oxononanoate aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:27.

28. The polynucleotide of claim 2 which encodes an acetylornithine aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:28.

29. The polynucleotide of claim 2 which encodes an aspartate aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:29.

30. The polynucleotide of claim 2 which encodes an glucosamine:fructose-6-phosphate aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:30.

31. The polynucleotide of claim 2 which encodes an histidinol-phosphate aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:31.

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32. The polynucleotide of claim 2 which encodes a branched chain aminotransferase that is at least 70% identical to the enzyme of SEQ ID NO:32.

33. An isolated polynucleotide encoding an enzyme with aminotransferase activity, wherein the polynucleotides encodes the enzyme of SEQ ID NOS:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, or SEQ ID NO:32.--

34. An isolated polynucleotide of claim 1, wherein the enzyme encoded by the isolated polynucleotide has the same amino group acceptor and amino group donor specificity as the enzyme to which it is at least 70% identical.

35. A nucleic acid probe complementary to the nucleic acid probe of claim 17.--